

Freshline[®] Process Intelligence
Freezing solutions beyond just
tunnel freezers

Enter the world of smart cryogenic freezing with our Freshline® Process Intelligence

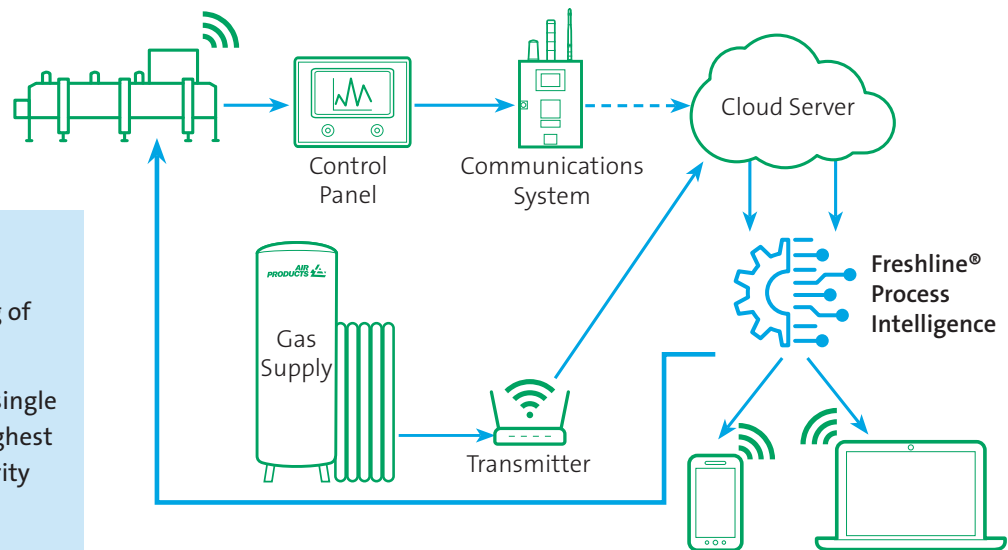
Our Freshline® Process Intelligence revolutionises the level of convenience, efficiency and effectiveness offered by current cryogenic freezing processes. Its constant monitoring (24/7) and the option for long term data analysis enables you to:

- Improve your production efficiency
- Ensure you use every drop of nitrogen effectively
- Significantly reduce potential for human error
- Improve maintenance practices
- Speed up fault finding and resolving
- Enjoy an improved remote support when contacting Air Products
- Align with your Industry 4.0 initiatives

Available as an option on all new Freshline® EF, MP, DM and IQF+ tunnel freezers. If you already have one of these freezers onsite we can also retrofit the Freshline® Process Intelligence on it.

How does it work?

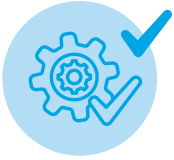
Freshline® Process Intelligence uses sensor and wireless communications technology to advise process optimisation based on advanced analytics, as well as tracking key process parameters.



Key features

- Continuous monitoring of all key parameters
- Data collection onto a single platform combining highest standards of data security
- Data available to key Air Products stakeholders from any location with internet access for optimal customer service
- Multiple additional options

Key benefits



Increases productivity by up to 25-30%

- Reduces unplanned downtime
- Improves uptime
- Optimises maintenance schedule
- Optimises nitrogen deliveries
- In line with industry 4.0



Reduces nitrogen consumption by up to 10%

- Helps you optimise the use of your tunnel and reduce consumption where amenable
- Helps you reduce the level of over-freezing
- Distribution analysis of nitrogen by day, by recipe and by tunnel
- Enables efficiency evaluations



Supports safety in your facility

- Notifies you of unsafe practices
- Traceability of key process parameters and their limits
- Back-up reporting of O₂ levels



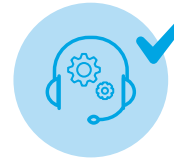
Increases product quality

- Freezes the product optimally (advises you how to avoid over- or under-freeze)
- Potentially less physical product damage related to unoptimised loading
- Better glazing results where amenable



Supports traceability and quality assurance

- Operating reports can support your quality assurance and could save you time on data analysis
- Gives you the peace of mind that if something goes wrong, you will be notified



Improved remote customer service

- Provides remote access to your operating data for an improved remote support by your Air Products engineer
- Often speeds up inquiry resolution by avoiding unnecessary on-site visits



Choose the level of information you find beneficial

Onboarding: Simplified data analysis

- Automated daily email service (“Yesterday’s data”)
 - Key alarms and process parameters (KPIs)
 - Traffic light system to indicate tunnel performance
 - Operation insight/snapshot

Advanced (available as of autumn 2020): additional features

- Dashboard visualisation
- Interactive
- Real-time data
- Automated monitoring providing analysis
- Past trend data-logging at a click
- Advanced alarms and resolution proposals
- Predictive maintenance

For more information, please contact us or visit our website to contact your local representatives.

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